Annual Index
Westinghouse ENGINEER
Volume 29, 1969

Subject Index

(PI . . . Products for Industry; TP . . . Technology in Progress)

A

Air Conditioning
computer room. PI. May. p95–6.
See also Laboratory.
Aircraft
window temperature control has simple static tap changer. D. E. Baker and H. H. C. Richards. Sept. p139–42.
See also Generator.
Airport. See Transportation.
Antenna, mountain models aid design of VLF. TP. Nov. p188.
Apollo camera. See Television.
Arc Furnace
nonconsumable electrode developed for vacuum arc melting. TP. Sept. p157–8.
See also Power system.
Atomic energy. See Nuclear energy.

B

Breeder reactor. See Nuclear energy.
Bushing
cast-epoxy secondary. PI. Sept. p159–60.
load-break for distribution equipment. PI. Jan. p32.

C

Camera
data reader system. PI. Jan. p31.
See also Television.
Capacitor, enclosed high-voltage. PI. Mar. p64.
Cinematography. See Power supply.
Circuit breaker
SF_6 ratings will be increased. TP. July. p127–8.
static sensor makes compact circuit breakers more capable and more flexible. Ray Whitt and Thomas W. Slebodnik. May. p80–4.
vacuum for 15-kV distribution substations. Robert A. Few and S. John Cherry. Jan. p24–6.
See also Power system.
Communications, unscrambler improves communications in helium-oxygen atmospheres. TP. Jan. p30–1.
Computer
control can ease process startup. G. S. Rambo and Vester S. Buxton. Mar. p53–5.
control computer can be expanded with hardware and software modules. TP. May. p93–4.
Computer (*continued*)
general-purpose onboard satellite computer. David K. Sloper and Jon S. Squire. Jan. p18–23.
multicomputer approach to reliable power system operation. P. E. Couture and J. C. Russell. May. p66–70.
packaged room. PI. Jan. p31–2.
See also Control; Power system.
Control
base rate controller (WRC-1). PI. Jan. p31.
direct digital comes of age. Calvin W. Eggers. July. p98–103.
solid-state relay improves capability and reliability. J. P. Conner. Nov. p178–81.
static voltage regulator. PI. Mar. p64.
three-axis numerical. PI. Sept. p160.
See also Aircraft; Computer; Motor; Numerical control; Steel mill; Welding.
Converter. See Frequency converter.
Cooling, air flow detecting relay. PI. July. p128.

D

Deep-submergence rescue vehicle. See Marine.
Detection system, Periguard. PI. Jan. p32; TP. July. p126–7.
Digital control. See Control.
Diving system. See Marine.

E

Electric home heating, baseboard heater designed for easy installation. TP. Jan. p27.
Electronic tube. See Tube, electronic.
Experiments. See Statistics.

F

Fans
air-handling system at Metropolitan Opera. TP. Sept. p157.
comfort control of traffic tunnel. TP. Jan. p27.
Flash evaporator, plant to produce pure water from mine drainage. TP. Sept. p159.
Frequency converter, solid-state. PI. July. p128.
Fuse, expulsion power. PI. Sept. p160.

G

Generation. See Power system.
Generator
aircraft generator weight reduced by more effective cooling. R. L. Gasperetti. May. p71–5.
large rotors tested. July. Inside front cover.
See also Power system.

H

Heat pipe, for radioisotope thermoelectric generator. TP. May. p94–5; Back cover.

I

Image tube. See Television; Tube, electronic.
Imaging, radar. See Radar.
Instruments, detachable. PI. Jan. p31.
Integrated circuits, high-density circuitry produced by electron imaging. TP. Nov. p187; Back cover.
Interrupter. See Circuit breaker.

L

Laboratory
acoustic test room controls sound mixing for testing air conditioning equipment. TP. Jan. p28–9.
See also Marine; Turbine, gas.

M

Manufacturing facility
plant capacity increased for steam generators and pressurizers. May. Inside front cover.
transformer production benefits from innovations in manufacture and design. Sept. Inside front cover.
Mapping radar. See Radar.
Marine
ac power provides flexible maneuvering for deep-submergence rescue vehicle. R. C. Fear, R. R. Madson, and J. M. Urish. Mar. p41–5.
carbon dioxide monitor for diving systems. TP. May. p95.
deep-diving research facility nears completion. TP. Jan. p28.
See also Communications.
Metallurgy, pressing out defects alters material properties. TP. Jan. p29.
Metering, primary distribution goes underground. TP. May. p94.
Motion pictures. See Power supply.
Motor
cast-iron construction. PI. Jan. p32.
combination starter now provides complete circuit protection. J. M. Michaelson. Sept. p135–8.
dc mill rerated and redesigned. U. M. Elder and C. J. Photiadis. July. p104–8.
hydraulic-pump for aircraft support equipment. PI. Mar. p64.
modern permanent-magnet dc. James C. Wachob and John C. Erlandson. Mar. p46–52.

Annual Index
Westinghouse ENGINEER
Volume 29, 1969

Subject Index

(PI . . . Products for Industry; TP . . . Technology in Progress)

A

Air Conditioning
computer room. PI. May. p95–6.
See also Laboratory.
Aircraft
window temperature control has simple static tap changer. D. E. Baker and H. H. C. Richards. Sept. p139–42.
See also Generator.
Airport. See Transportation.
Antenna, mountain models aid design of VLF. TP. Nov. p188.
Apollo camera. See Television.
Arc Furnace
nonconsumable electrode developed for vacuum arc melting. TP. Sept. p157–8.
See also Power system.
Atomic energy. See Nuclear energy.

B

Breeder reactor. See Nuclear energy.
Bushing
cast-epoxy secondary. PI. Sept. p159–60.
load-break for distribution equipment. PI. Jan. p32.

C

Camera
data reader system. PI. Jan. p31.
See also Television.
Capacitor, enclosed high-voltage. PI. Mar. p64.
Cinematography. See Power supply.
Circuit breaker
SF_6 ratings will be increased. TP. July. p127–8.
static sensor makes compact circuit breakers more capable and more flexible. Ray Whitt and Thomas W. Slebodnik. May. p80–4.
vacuum for 15-kV distribution substations. Robert A. Few and S. John Cherry. Jan. p24–6.
See also Power system.
Communications, unscrambler improves communications in helium-oxygen atmospheres. TP. Jan. p30–1.
Computer
control can ease process startup. G. S. Rambo and Vester S. Buxton. Mar. p53–5.
control computer can be expanded with hardware and software modules. TP. May. p93–4.
Computer (*continued*)
general-purpose onboard satellite computer. David K. Sloper and Jon S. Squire. Jan. p18–23.
multicomputer approach to reliable power system operation. P. E. Couture and J. C. Russell. May. p66–70.
packaged room. PI. Jan. p31–2.
See also Control; Power system.
Control
base rate controller (WRC-1). PI. Jan. p31.
direct digital comes of age. Calvin W. Eggers. July. p98–103.
solid-state relay improves capability and reliability. J. P. Conner. Nov. p178–81.
static voltage regulator. PI. Mar. p64.
three-axis numerical. PI. Sept. p160.
See also Aircraft; Computer; Motor; Numerical control; Steel mill; Welding.
Converter. See Frequency converter.
Cooling, air flow detecting relay. PI. July. p128.

D

Deep-submergence rescue vehicle. See Marine.
Detection system, Periguard. PI. Jan. p32; TP. July. p126–7.
Digital control. See Control.
Diving system. See Marine.

E

Electric home heating, baseboard heater designed for easy installation. TP. Jan. p27.
Electronic tube. See Tube, electronic.
Experiments. See Statistics.

F

Fans
air-handling system at Metropolitan Opera. TP. Sept. p157.
comfort control of traffic tunnel. TP. Jan. p27.
Flash evaporator, plant to produce pure water from mine drainage. TP. Sept. p159.
Frequency converter, solid-state. PI. July. p128.
Fuse, expulsion power. PI. Sept. p160.

G

Generation. See Power system.
Generator
aircraft generator weight reduced by more effective cooling. R. L. Gasperetti. May. p71–5.
large rotors tested. July. Inside front cover.
See also Power system.

H

Heat pipe, for radioisotope thermoelectric generator. TP. May. p94–5; Back cover.

I

Image tube. See Television; Tube, electronic.
Imaging, radar. See Radar.
Instruments, detachable. PI. Jan. p31.
Integrated circuits, high-density circuitry produced by electron imaging. TP. Nov. p187; Back cover.
Interrupter. See Circuit breaker.

L

Laboratory
acoustic test room controls sound mixing for testing air conditioning equipment. TP. Jan. p28–9.
See also Marine; Turbine, gas.

M

Manufacturing facility
plant capacity increased for steam generators and pressurizers. May. Inside front cover.
transformer production benefits from innovations in manufacture and design. Sept. Inside front cover.
Mapping radar. See Radar.
Marine
ac power provides flexible maneuvering for deep-submergence rescue vehicle. R. C. Fear, R. R. Madson, and J. M. Urish. Mar. p41–5.
carbon dioxide monitor for diving systems. TP. May. p95.
deep-diving research facility nears completion. TP. Jan. p28.
See also Communications.
Metallurgy, pressing out defects alters material properties. TP. Jan. p29.
Metering, primary distribution goes underground. TP. May. p94.
Motion pictures. See Power supply.
Motor
cast-iron construction. PI. Jan. p32.
combination starter now provides complete circuit protection. J. M. Michaelson. Sept. p135–8.
dc mill rerated and redesigned. U. M. Elder and C. J. Photiadis. July. p104–8.
hydraulic-pump for aircraft support equipment. PI. Mar. p64.
modern permanent-magnet dc. James C. Wachob and John C. Erlandson. Mar. p46–52.

N

Nuclear energy
- FFTF—fast flux test facility for developing breeder reactor technology. E. R. Astley and J. C. R. Kelly, Jr. Nov. p162–9.
- information center carries story of peaceful atom. TP. Sept. p157.
- plant training center has simulator plus actual plant. TP. July. p125–6.
- plutonium-bearing reactor fuels being developed for nuclear generating plants. TP. Jan. p29.
- plutonium fuels development laboratory. Jan. Back cover.
- Saxton Core III reactor. TP. Sept. p159; Back cover.
- test facility begun for breeder reactor development. TP. Mar. p64.
- See also Manufacturing facility.

Numerical control
- radar equipment wiring machine. Jan. Inside front cover.
- See also Control.

O

Oceanography. See Marine.

P

Peaking plant. See Turbine, gas.
Periguard. See Detection system.
Plant. See Manufacturing facility.
Plutonium. See Nuclear energy.

Power supply
- aircraft generator test stands. PI. Jan. p32.
- for making movies. W. E. Treese and R. W. Terry. Jan. p16–7.
- See also Marine.

Power system
- circuit breaker duty computer program facilitates application evaluations. TP. July. p126.
- electric for large arc furnaces. L. C. Elliott. Sept. 143–9.
- forecasting generator unit size patterns for the seventies. Hugh G. Houser and John A. Reker. May. p76–9.
- improved digital simulation for analyzing power system disturbances. C. J. Baldwin and R. T. Byerly. July. p109–16.
- probability calculation of power system generation reserves. C. J. Baldwin. Mar. p34–40.
- spot networks can improve service reliability to suburban load centers. D. R. Smith and W. Paul Matty. May. p85–92.
- See also Computer; Relay; Turbine, gas.

Process Control. See Computer; Control.

R

Radar
- Air Force tactical is mobile and reliable. TP. July. p127.
- fundamentals of pulse doppler. Louis P. Goetz. Mar. p56–61.
- side-look mapping now used for geological reconnaissance. TP. July. p125; Back cover.
- See also Numerical control.

Radio. See Antenna.
Rapid transit. See Transportation.
Reactor, nuclear. See Nuclear energy.

Rectifier
- Gold-Line assemblies. PI. July. p128.
- silicon carbide can operate at 500 degrees C. TP. Mar. p62.

Relay
- semiconductor failure. PI. Nov. p189.
- single-zone ground distance SDGU system. Leo Husak and G. D. Rockefeller. July. p117–24.
- See also Control; Cooling.

Resin, fiberglass-reinforced shapes. PI. Nov. p189.

S

Satellite. See Computer.
Space. See Computer.
Spot networks. See Power system.
Statistics, planning experiments for efficient information gathering. Robert Hooke and John R. Van Horn. Nov. p182–6.

Steel mill
- blast furnace automation extended for high production and uniformity. TP. Mar. p63–4.
- integrated process control rolls steel more efficiently. John W. Wallace. Jan. p2–8.
- See also Motor.

Storage system. See Tube, electronic.
Switch, machine-tool limit. PI. Sept. p160.

T

Telescope. See Tube, electronic.

Television
- Apollo color camera. L. L. Niemyer, Jr. Nov. p170–7.
- camera mounts. PI. Nov. p189.
- lunar camera proven in Apollo flight. TP. May. p93.

Transformer
- developments in circular core-form. Gordon R. Monroe. Sept. p150–6.
- Schnabel cars continue to grow. TP. Sept. p158–9.
- step-lap core construction. TP. Sept. p158.

Transformer (*continued*)
- wrapping current transformer coil. Mar. Back cover.
- See also Manufacturing facility.

Transistor, high-voltage, high-current. PI. Nov. p189.

Transportation
- BART train control system nears operational status. TP. Nov. p187.
- passenger transfer system will take the long walk out of air travel. E. E. Hogwood and R. B. Maguire. Jan. p9–15.

Tube, electronic
- high-power tetrode. PI. Mar. p64.
- SEC television camera tubes map ultraviolet stars. TP. Mar. p63; Inside front cover.
- vidicon tube for document storage system. TP. Jan. p27–8.

Tunnel. See Fans.

Turbine, gas
- combustion test laboratory. Nov. Inside front cover.
- peaking plant provides 58 MW in a modular package. V. V. Schloesser. Sept. p130–4.

U

Ultrasonic cleaning, bench-type work station. PI. May. p96.

V

Vacuum interrupter. See Circuit breaker.
Voltage regulator. See Control.

W

Welding
- high-frequency arc stabilizer. PI. May. p96.
- portable control. PI. Jan. p32.
- training program cuts time and cost. TP. Nov. p188.

(*Authors Index on next page*)